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Curriculum Vitae

Jonathan M. Paley, Ph.D.

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Education

Ph.D., Physics, May 2004, Boston University

B.A., Physics and Computer Science, Drew University

Employment History

Associate Scientist, July 2015 – present, Neutrino Division, Fermi National Laboratory

Assistant Physicist, December 2009 – June 2015, HEP Division, Argonne National Laboratory

Postdoctoral Fellow, May 2004 – December 2009, Indiana University

Research Fellow, May 1998 – April 2004, Boston University

Research and Professional Experience

- 2016 – present: Co-convener of the ProtoDUNE Beamline Instrumentation Group
- 2015 – present: Co-convener of the cross sections analysis group in the NOvA experiment
- 2012 – 2015: Co-convener of the muon disappearance analysis in the NOvA experiment
- 2012 – present: elected member of the NOvA experiment Executive Committee
- 2011 – 2015: member of the NOvA experiment Institutional Board representing Argonne National Laboratory
- 2008 – present: Database Coordinator for the NOvA experiment
- 2014 – 2015: Database Coordinator for LBNE
- 2014: referee for the Canada Research Chair Program
- 2013: referee for the NSERC Subatomic Physics Discovery Grants Competition
- 2010-2012: Database Coordinator for the MINOS experiment
- 2008 – 2010: Reconstruction Coordinator for the MINOS experiment
- 2006 – 2010: Member of the MINOS Beam Systematics Working Group
- 2007 – 2010: Offline Analysis Coordinator for the MIPP Experiment
- 2005 – 2006: Co-coordinator of the MIPP data run

Select Publications

- P. Adamson, et al., "First measurement of muon-neutrino disappearance in NOvA," Phys. Rev. D93, 051104(R) (2016)
- P. Adamson, et al., "First Measurement of Electron Neutrino Appearance in NOvA," Phys. Rev. Lett. 116, 151806 (2016)
- J. Paley, et al., "Measurement of charged pion production yields off the NuMI target," *Phys. Rev. D90, 032001 (2014)*
- P. Adamson, et al., "Measurement of neutrino and antineutrino oscillations using beam and atmospheric data in MINOS," Phys. Rev. Lett. 110, 251801 (2013)
- T.S. Nigmanov, et al., "Forward Neutron Production at the Fermilab Main Injector," *Phys. Rev. D 83, 012002 (2011)*
- P. Adamson et al., "Measurement of neutrino oscillations with the MINOS detectors in the NuMI beam," Phys.Rev.Lett. 101, 131802 (2008)
- G. W. Bennet, et al., "Final report of the E821 muon anomalous magnetic moment measurement at BNL," Phys. Rev. D 73, 072003 (2006)

Honors and Awards

- ANL LDRD "Development of Large-Area VUV Microchannel Plate Photodetectors for Use in Large Liquid Argon and Xenon Time Projection Chambers," 2013-2014
- 2011: Brazil-U.S. Physics Lectureship Program: Short Lecture Series on Experimental Particle Physics with a Focus on the Intensity and Cosmic Frontiers

Teaching and Mentoring Experience

- Mentor to 4 Ph.D. students since 2012.
- Mentor to 8 undergraduate summer interns and 2 high school IMSA students since 2011.
- Indiana University, *Instructor*, January – May, 2007: Taught first-year, second-semester undergraduate calculus-based *Physics* to a class size of 78 students. This class was team-taught; I spent the first half of the semester teaching two discussion sections, and the second half was spent in lectures.